P, S body waves upper mantle structure beneath Australian region from travel time analysis and turning point approximation

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The earthquakes in the seismicity belt recorded at 65 portable broadband stations deployed during the Skippy experiment provide good coverage of the upper mantle and uppermost part of lower mantle under the Australian region. 15 set of 1-D velocity structures have been derived by travel time analysis. These structures are combined to produce a 3-D structure by turning point approximation and staking into 3-D cells.

In the uppermost mantle the results display very high S wavespeeds beneath the Precambrian shields.